

TABLE 1 Comparison of clinical characteristics of patients undergoing total splenectomy and SPSE

| | total splenectomy | | SPSE | | chi-square value /Z value | P |
|--|-------------------|-----------------------|------|--------------------|---------------------------|-------|
| | n | median (range) | n | median (range) | | |
| male (%) | 41 | 53.7% | 16 | 37.5% | 1.202 | 0.273 |
| Mean age at surgery, y | 41 | 9 (2-17) | 16 | 7 (5-11) | -1.563 | 0.118 |
| Mean hemoglobin before surgery, g/L | 41 | 74 (18-95) | 16 | 68.5 (56-80) | -0.275 | 0.783 |
| Mean hemoglobin after surgery, g/L | 41 | 117 (97-175) | 16 | 124 (104-133) | -0.703 | 0.482 |
| Mean free bilirubin before surgery, mmol/L | 41 | 109.45 (21.80-237.80) | 16 | 61.4 (16.0-146.0) | -0.071 | 0.943 |
| Mean free bilirubin after surgery, μ mol/L | 41 | 42.87 (2.80-66.80) | 16 | 13.35 (7.00-86.00) | -1.633 | 0.102 |
| Mean platelet count before surgery, $\times 10^9$ /L | 41 | 188 (27-364) | 16 | 121 (77-333) | -1.368 | 0.171 |
| Mean platelet count after surgery, $\times 10^9$ /L | 41 | 418 (165-1416) | 16 | 442 (311-643) | -2.246 | 0.025 |
| Mean white blood cell count before surgery, $\times 10^9$ /L | 41 | 5.57 (3.28-25.06) | 16 | 7.37 (5.27-18.00) | -0.906 | 0.365 |
| Mean white blood cell count after surgery, $\times 10^9$ /L | 41 | 7.09 (3.68-13.12) | 16 | 10.11 (3.40-15.70) | -2.790 | 0.005 |

TABLE 2 General conditions and surgical results in children with partial splenic artery embolization

| N O | Follow -up ti me (mo) | Age at diagnosi s (y) | Age at surgery , (y) | Estimate d embolis m range (%) | preoperative spleen volum e (cm ³) | Postoperativ e spleen volume * (cm ³) | Actual embolis m range (%) | Duration of postoperativ e abdominal pain (d) | Duration of postoperativ e fever (d) | Number of postoperativ e vomiting |
|--------|--------------------------------|-----------------------------|----------------------------|--|--|--|-------------------------------------|--|--|---|
| 1 | 26 | 1 | 5 | 75 | NA | NA | NA | 7 | 6 | 0 |
| 2 | 26 | 4 | 5 | 85 | NA | NA | NA | 6 | 5 | 1 |
| 3 | 24 | 1 | 6 | 80 | NA | NA | NA | 8 | 0 | 0 |
| 4 | 24 | 1 | 7 | 75 | NA | NA | NA | 9 | 0 | 0 |
| 5 | 21 | 2 | 7 | 85 | NA | NA | NA | 6 | 0 | 0 |
| 6 | 21 | 6 | 11 | 85 | 254.9 | 30.0 | 88.2 | 5 | 0 | 1 |
| 7 | 20 | 1 | 7 | 75 | 534.0 | 98.5 | 81.6 | 3 | 0 | 3 |
| 8 | 19 | 6 | 7 | 80 | 545.3 | 135.0 | 75.2 | 7 | 0 | 0 |
| 9 | 19 | 4 | 6 | 75 | 292.8 | 78.5 | 73.2 | 0 | 0 | 0 |
| 10 | 19 | 2 | 7 | 90 | 826.8 | 90.3 | 89.1 | 6 | 0 | 0 |
| 11 | 15 | 5 | 6 | 80 | 263.9 | 60.9 | 76.9 | 5 | 2 | 0 |
| 12 | 15 | 10 | 11 | 90 | 679.0 | 112.2 | 83.5 | 8 | 0 | 2 |
| 13 | 11 | 3 | 8 | 80 | 719.5 | 88.1 | 87.8 | 3 | 0 | 0 |
| 14 | 10 | 3 | 9 | 85 | 598.6 | 153.9 | 74.3 | 6 | 0 | 0 |
| 15 | 9 | 7 | 8 | 85 | 346.1 | 48.5 | 86.0 | 0 | 0 | 1 |
| 16 | 8 | 1 | 5 | 80 | 651.2 | 190.7 | 70.7 | 3 | 1 | 0 |

^a CT scan was arranged 6-9 days after SPSE

TABLE 3 Comparison of clinical indicators before and after surgery in patients undergoing SPSE

| | preoperative | Postoperative ^a | t/Z | P |
|---|----------------|----------------------------|------------|--------|
| Spleen volume (cm ³) | 545.72±190.97 | 105.66±45 | 7.90 | <0.001 |
| white blood cell count before surgery, ×10 ⁹ /L | 8.38±3.05 | 9.78±1.91 | -1.59 | 0.132 |
| hemoglobin before surgery | 69.73±6.88 | 122.13±9.86 | - 16.19 | <0.001 |
| platelet count, ×10 ⁹ /L | 220.19±60.90 | 425.20±70.72 | - 11.64 | <0.001 |
| free bilirubin, mmol/L | 61.40 (16-146) | 13.35 (7.00- 86.00) | -3.52 | <0.001 |
| IgG (g/L) | 11.51±2.81 | 12.21±3.84 | -0.99 | 0.336 |
| IgA (g/L) | 1.97±0.81 | 2.17±0.83 | -1.30 | 0.214 |
| IgE (g/L) | 10.3 (0.6-152) | 12.55 (2.6-202) | -1.24 | 0.211 |
| IgM (g/L) | 1.32±0.53 | 1.28±0.52 | 0.38 | 0.711 |
| Complement C3 (g/L) | 0.57±0.08 | 0.82±0.21 | -5.90 | <0.001 |
| Complement C4 (g/L) | 0.15±0.04 | 0.20±0.05 | -4.75 | <0.001 |

^a 6 months after SPSE